

Fig. 1

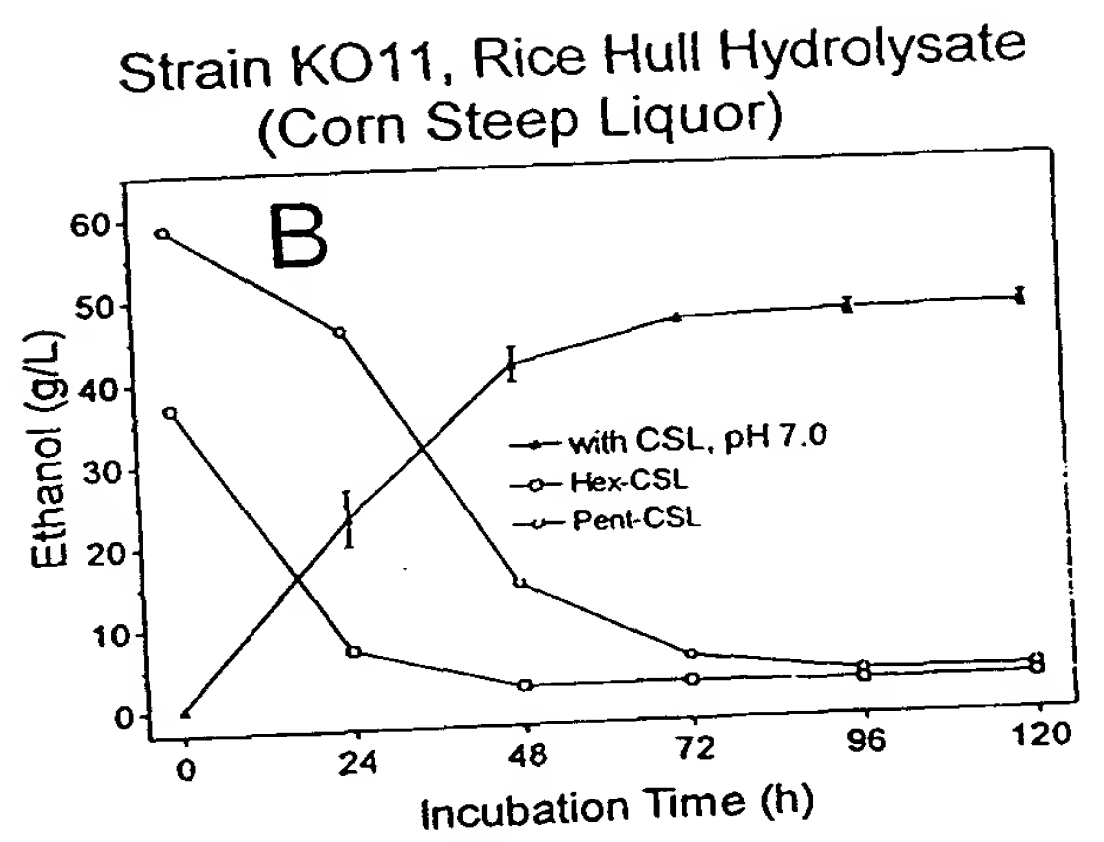
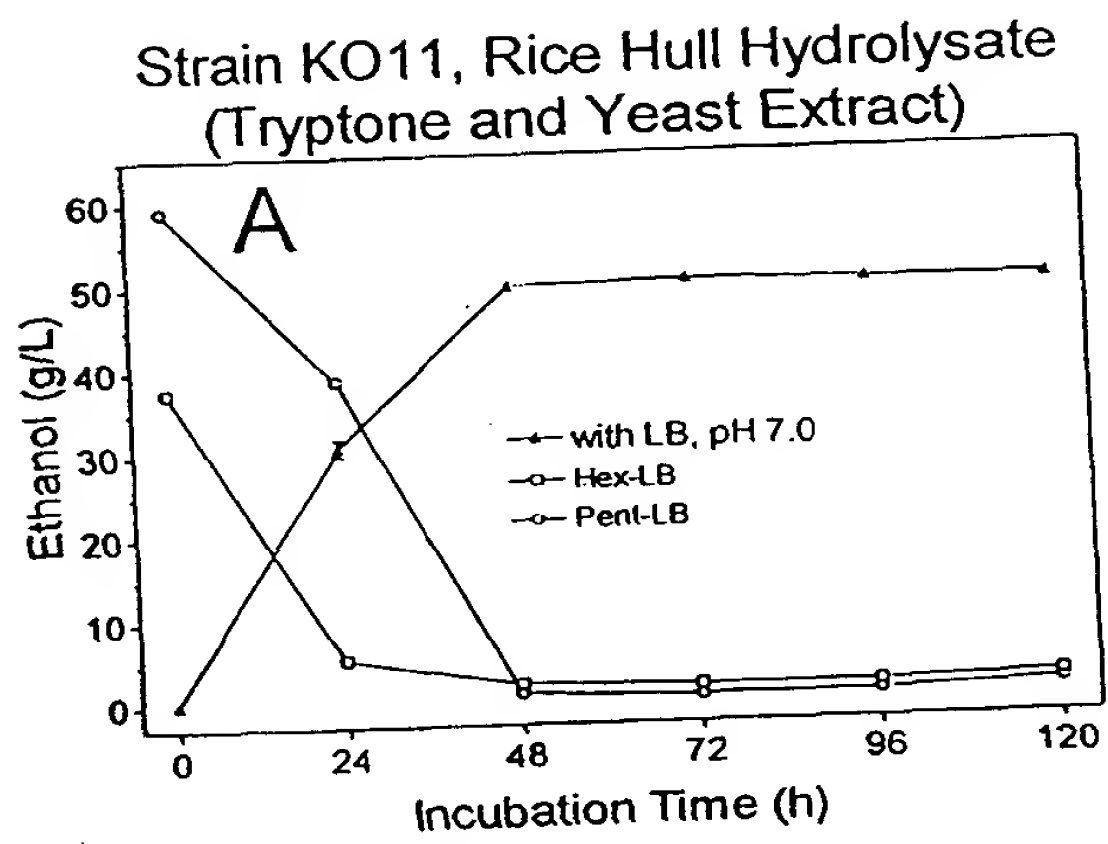


Fig. 2

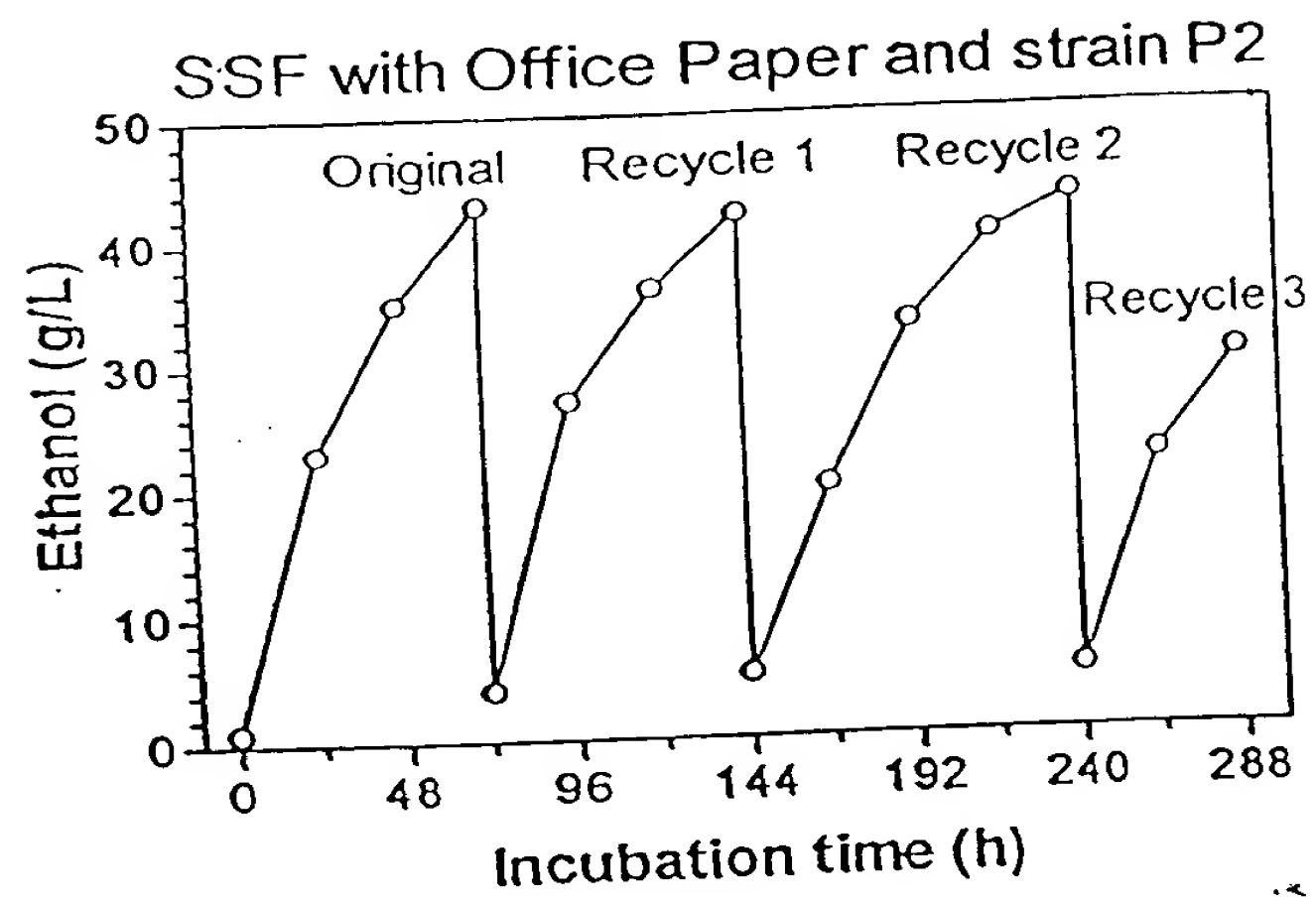
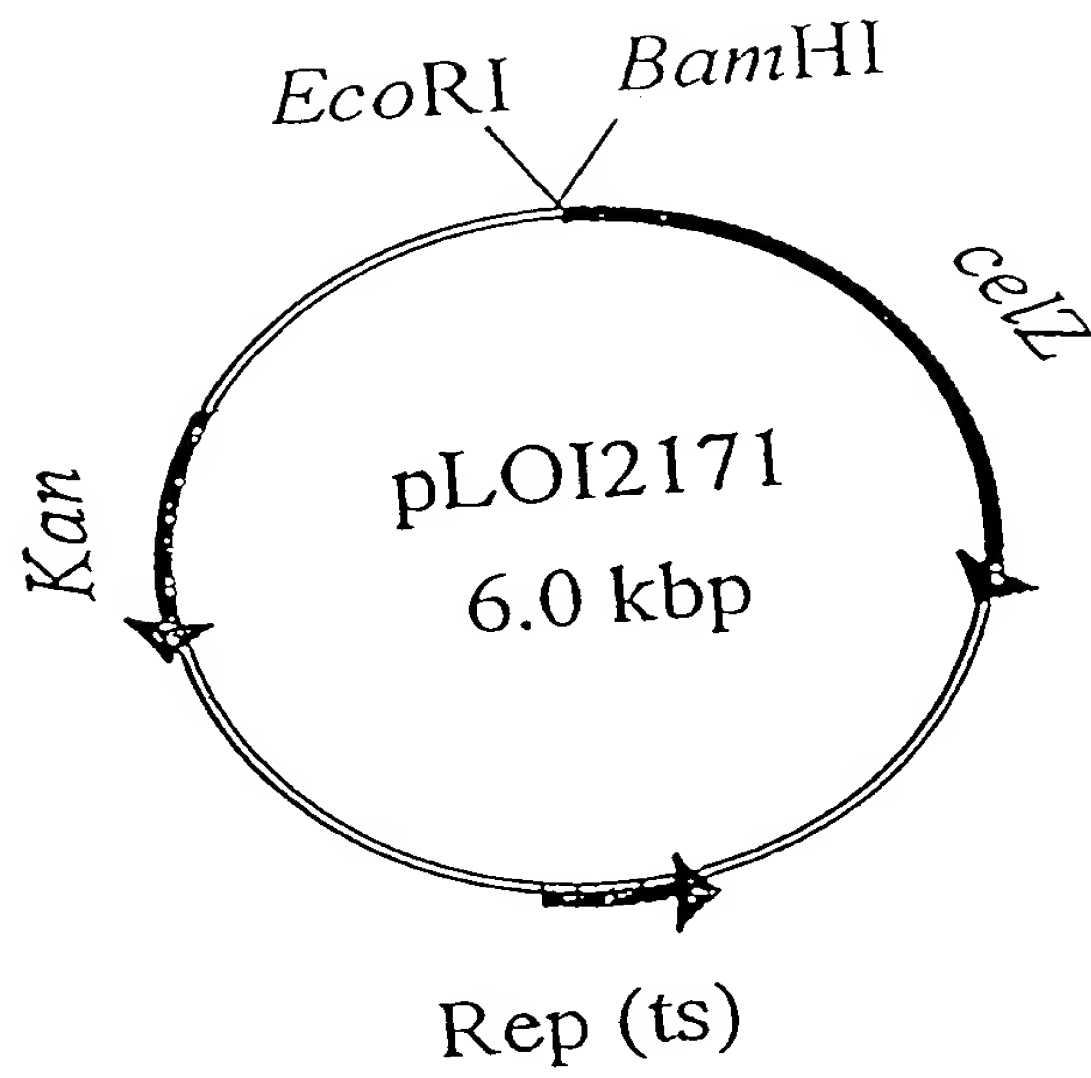


Fig. 3



105799-160000

Fig. 4

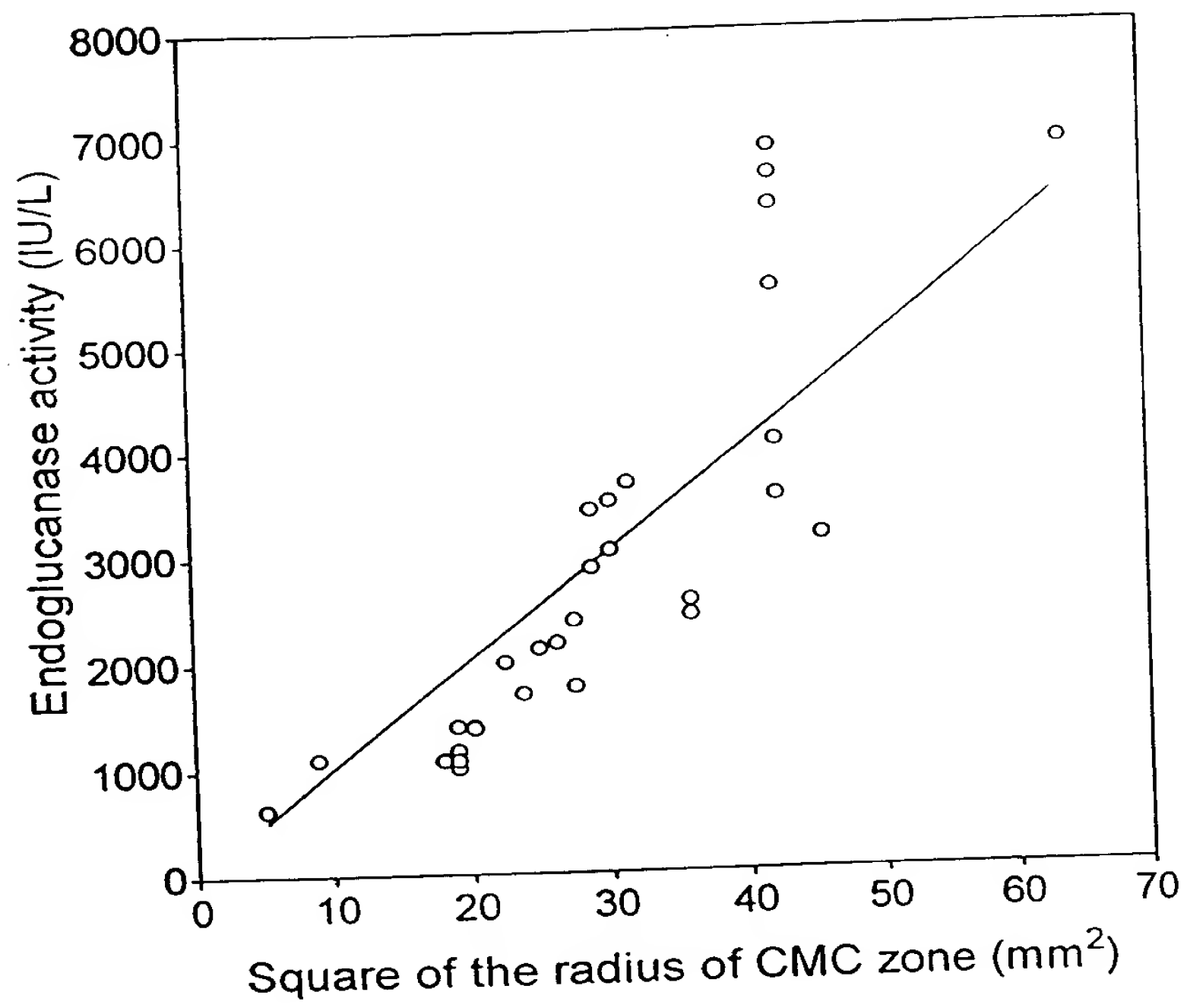


Fig. 5

1051 CTTTTTCGGC ATGAGCAACC AACATTTTCA AGGTATCATC CTGATGCGCA  
-35 region -10 region #  
1101 ATATCGGCAT CGGTTAGCCA TAACCATTTT ACCTGTCCGG CGGCCTTAAT  
1151 ACCTTGATCA GATGGTTCGT GGTGTTGTTA CCTTGCCGAA GGGCACCGGT  
1201 AAAAATGTTC GCGTCGGTGT TTTCGCCCGT GGCCCGAAAG CTGAAGAAGC  
1251 TAAAGCTGCT GGTGCAGAAG TTGTCGGCGC AGAAGACCTG ATGGAAGCCA  
1301 TTCAGGGCGG CAGCATTGAT TTCGATCGTG ATGCCCTTTA TACTGAAATT  
-35 region -10 region  
#  
1351 GCCTTGCGCT GCCATAATGA AGCAGCCTCC GGTGTTTTGG CAGATTTAAG  
Shine-Dalgarno  
1401 CGCTGCCTGA TTTTCGTgat cctctagagt ctatgaaatg gagattcatt  
celZ coding region→  
1451 tatgcctctc tcttattcgg ataaccatcc agtcatccgc aagcttggcc



Fig. 7

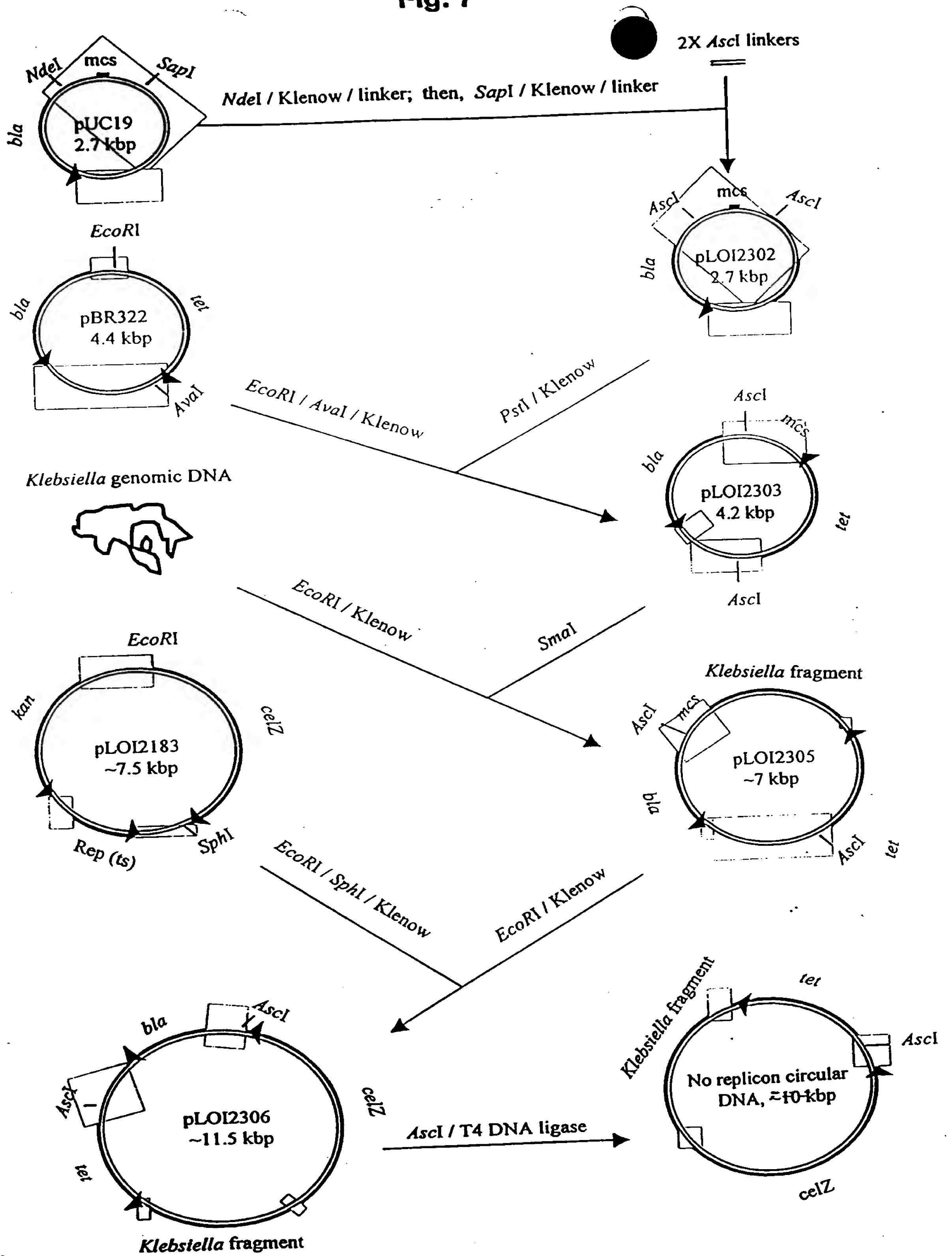


Fig. 8

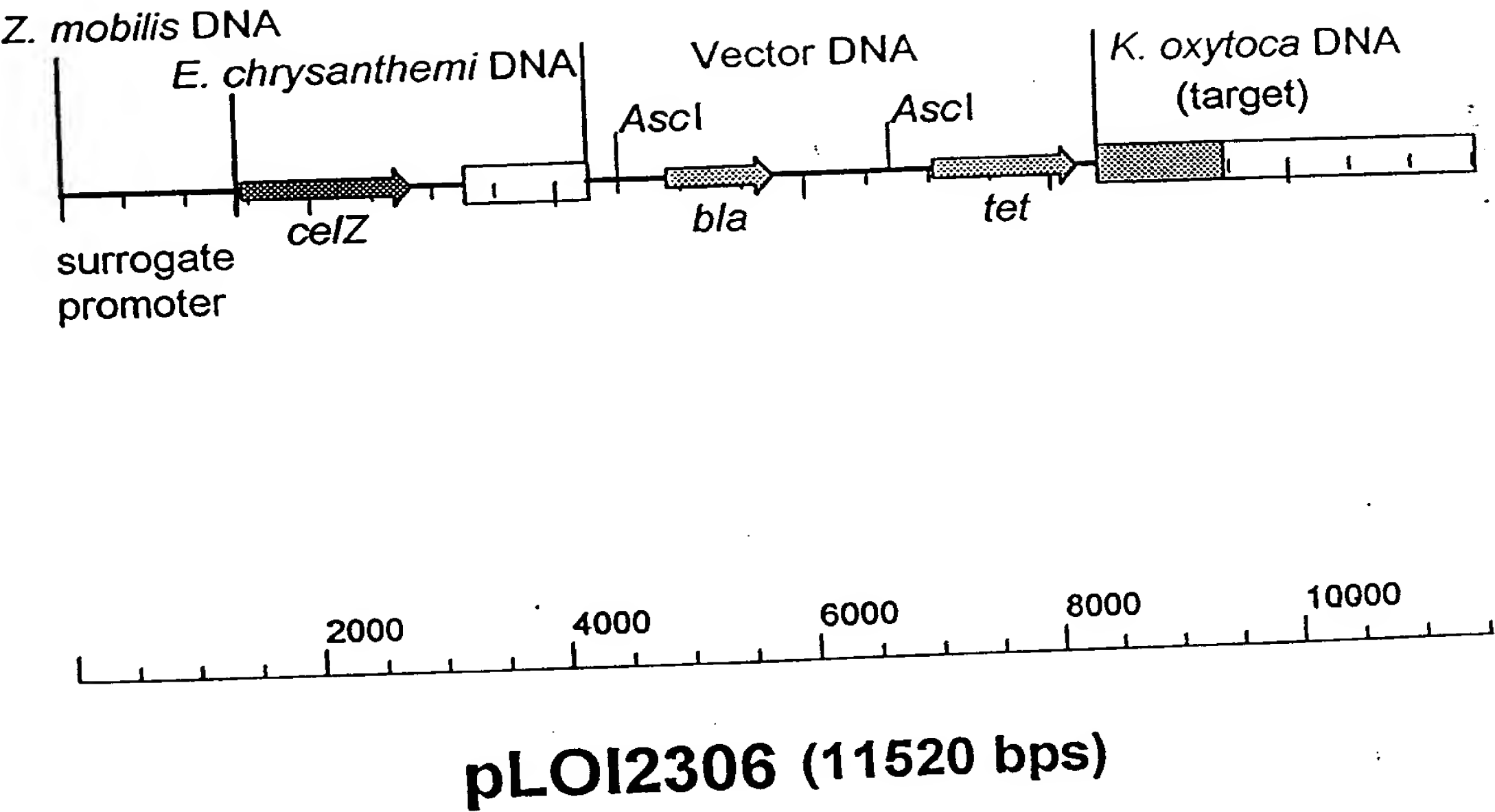
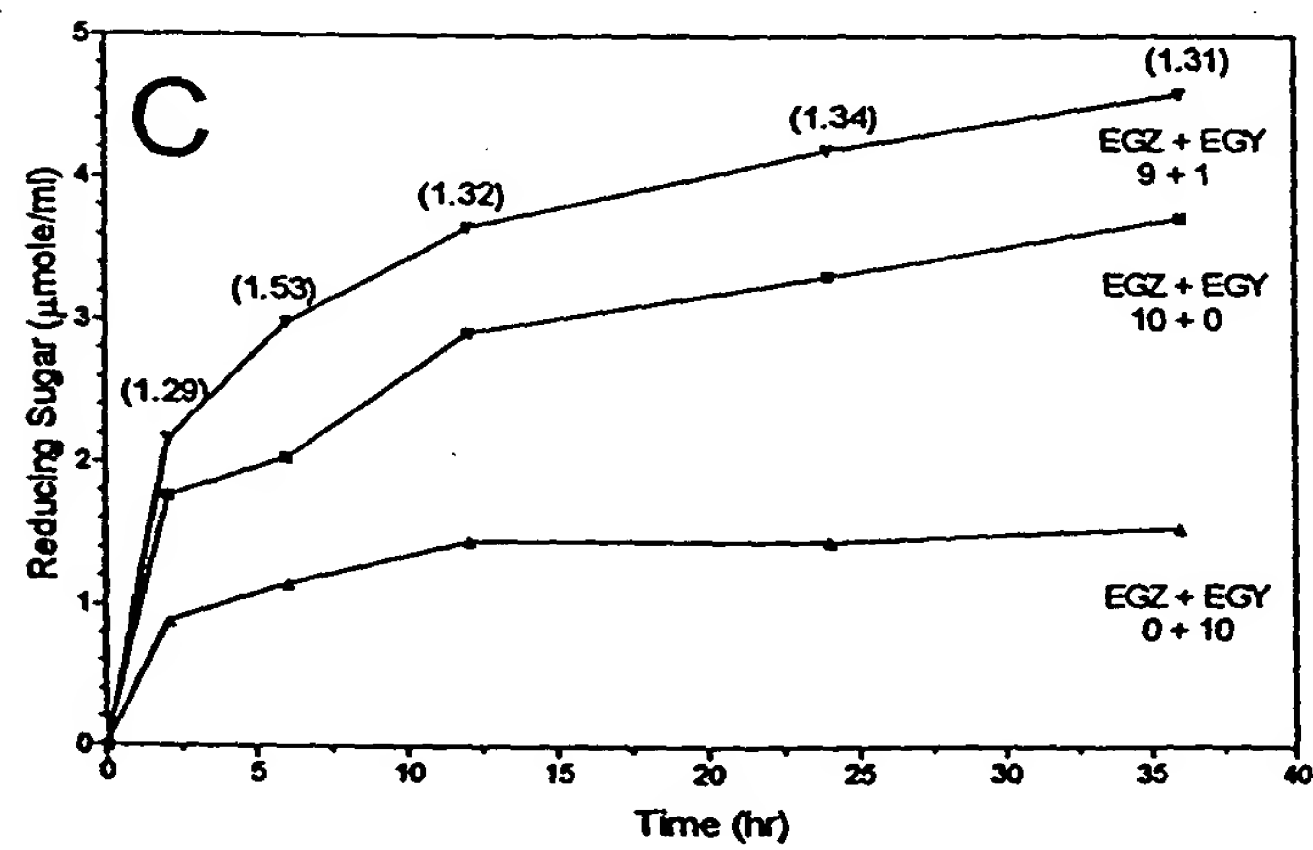
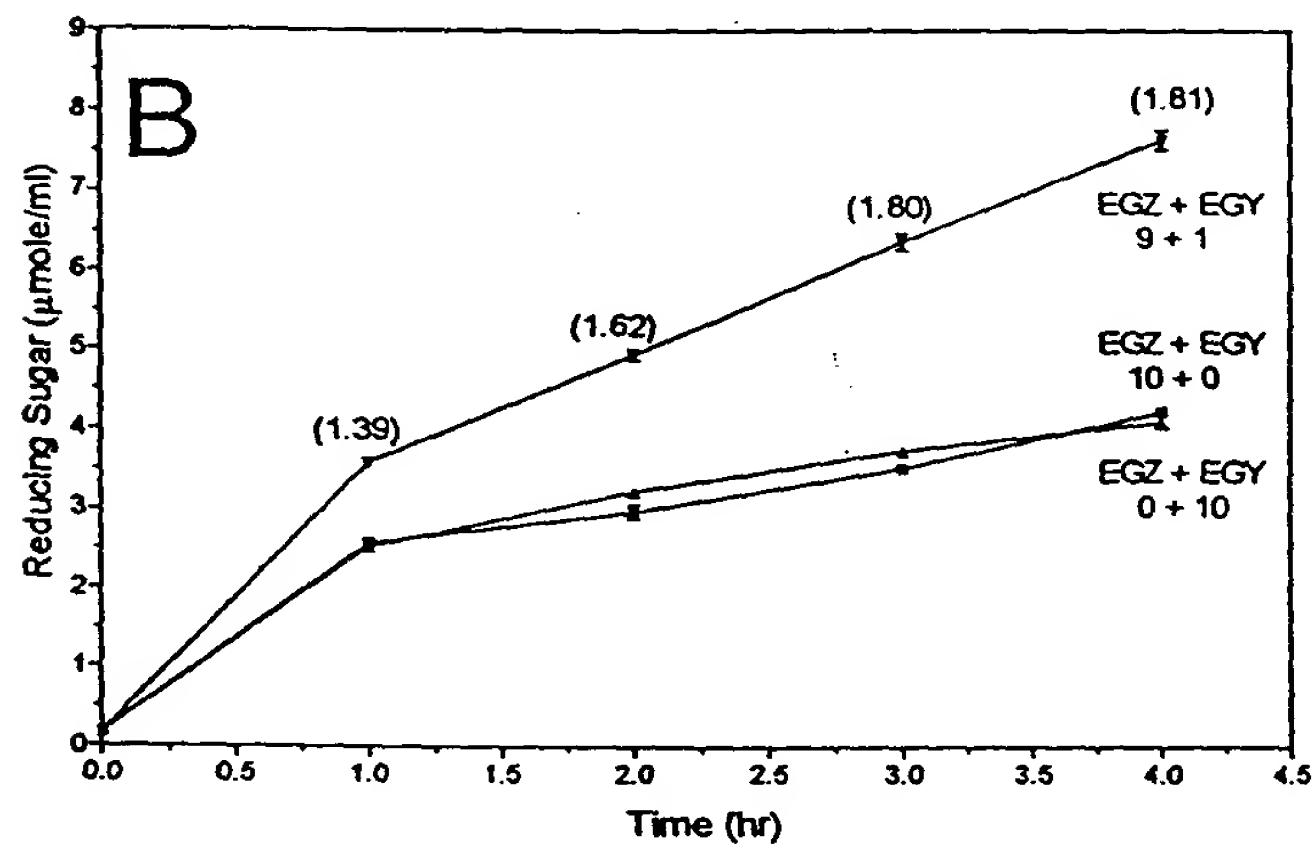
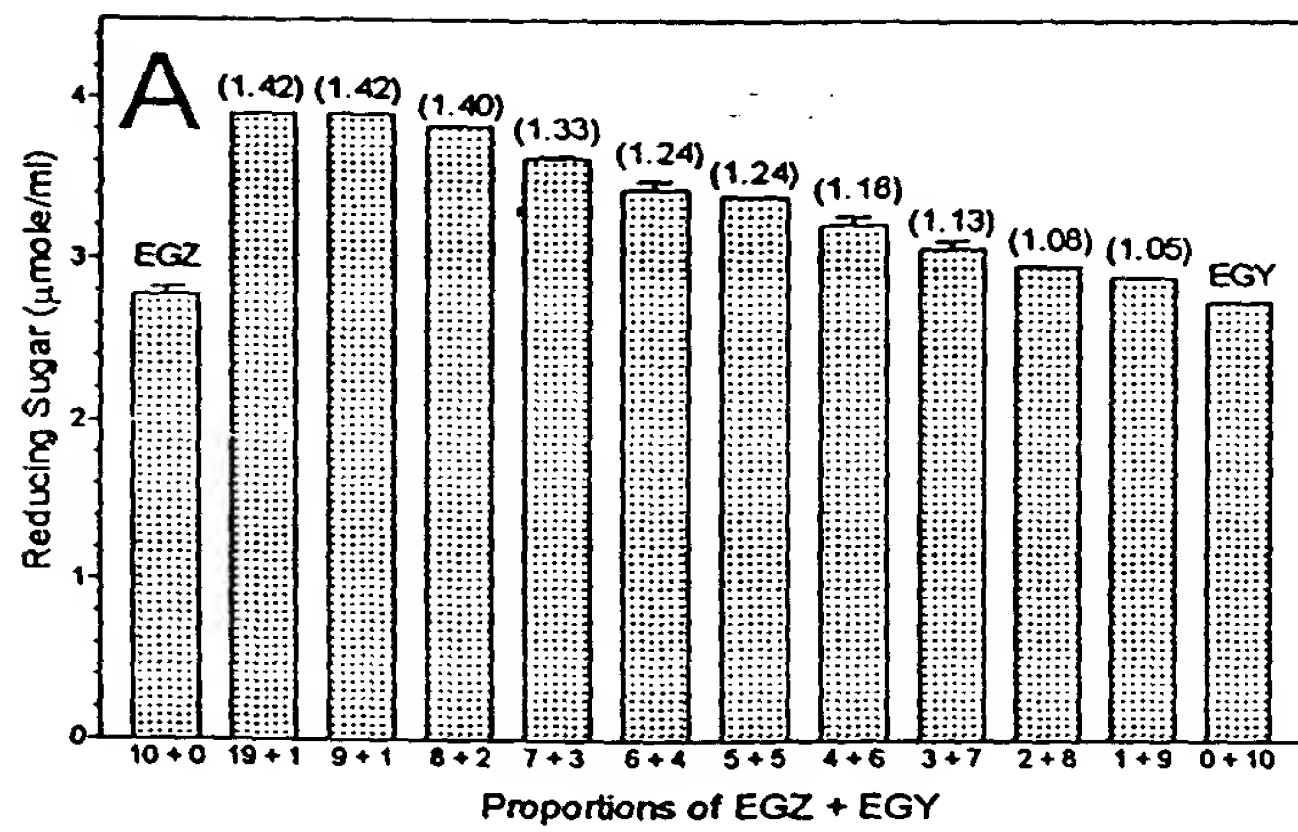


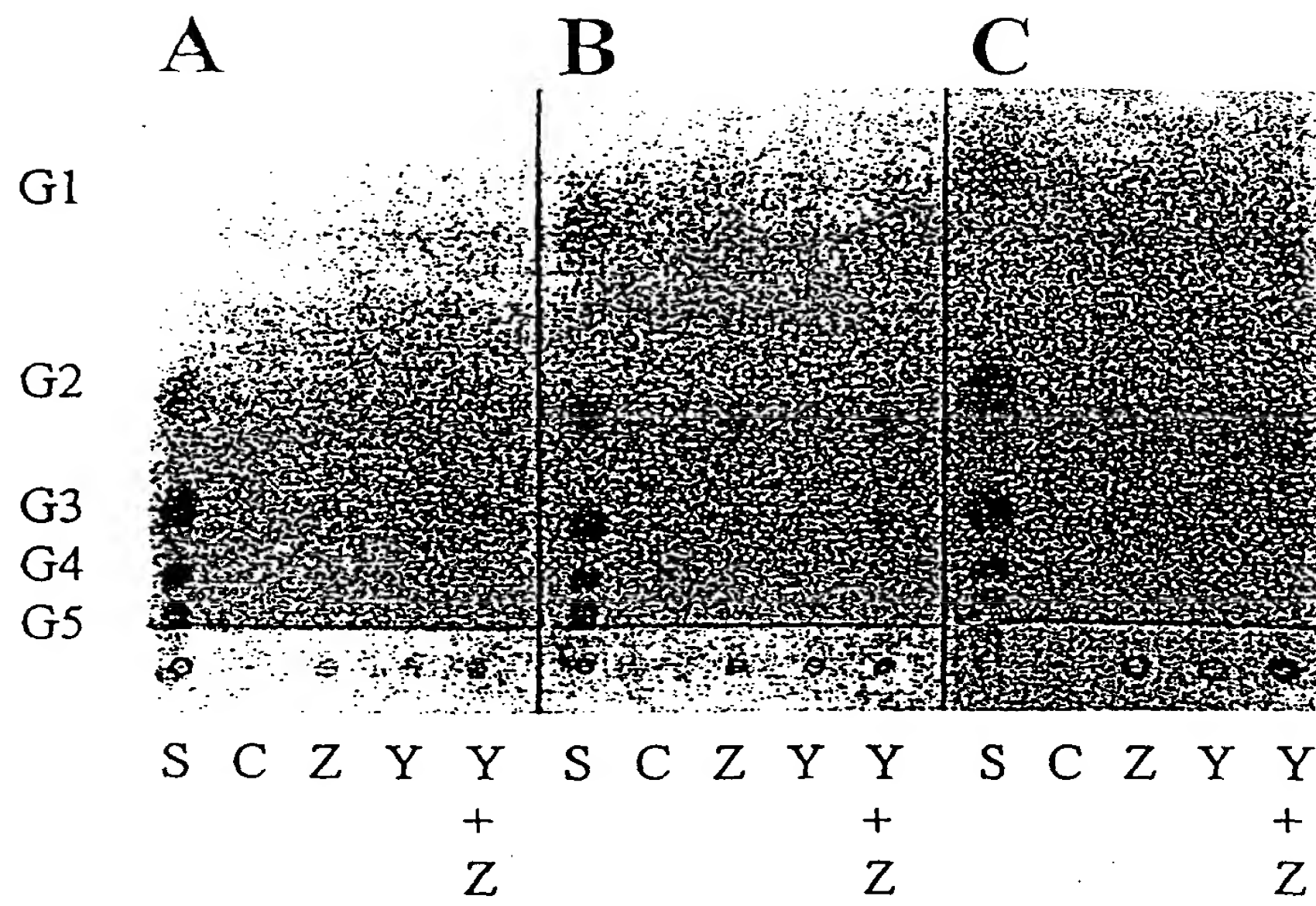


Fig. 9



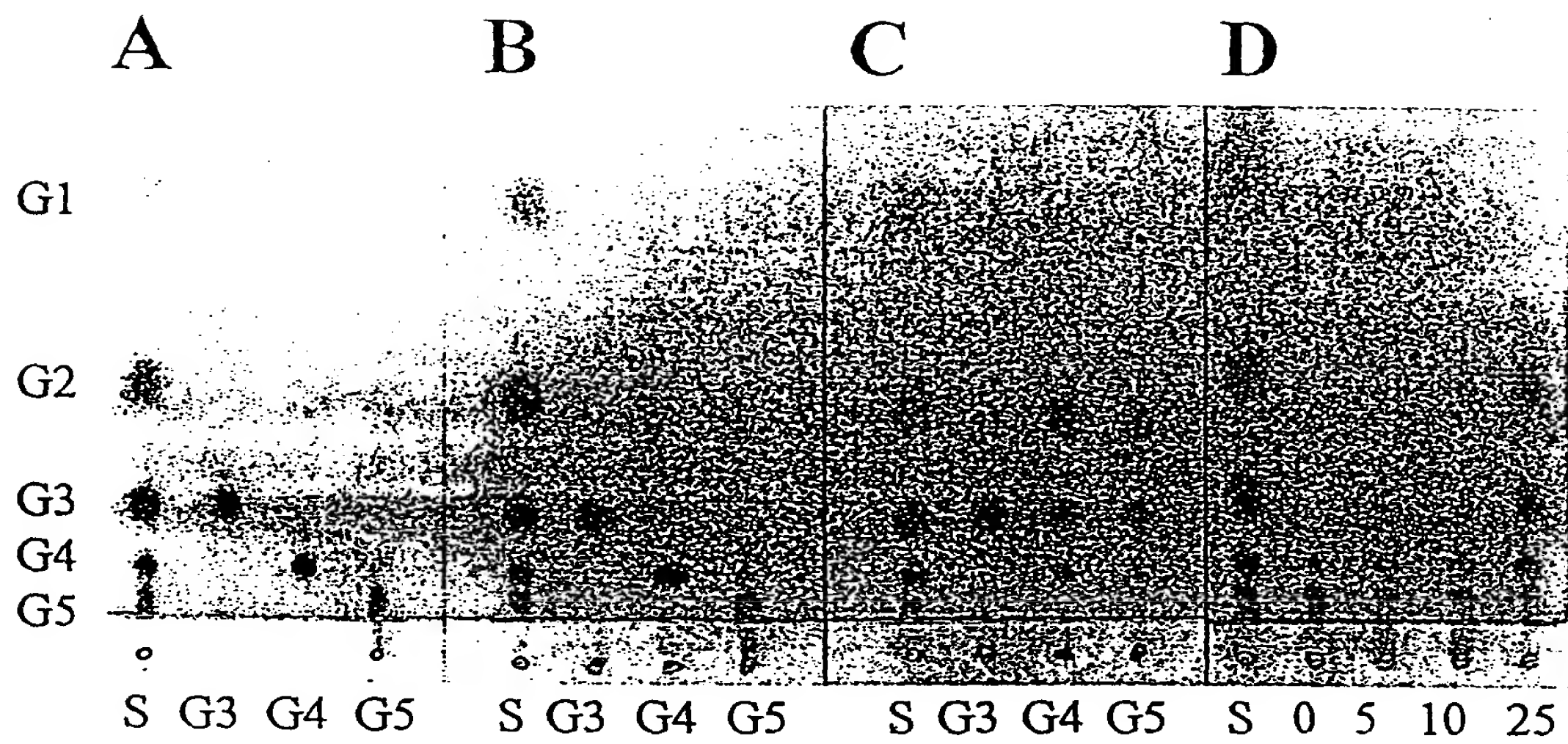
106T22-262250

Fig. 10



098869 061904

Fig. 11



106120-649260

Fig. 12

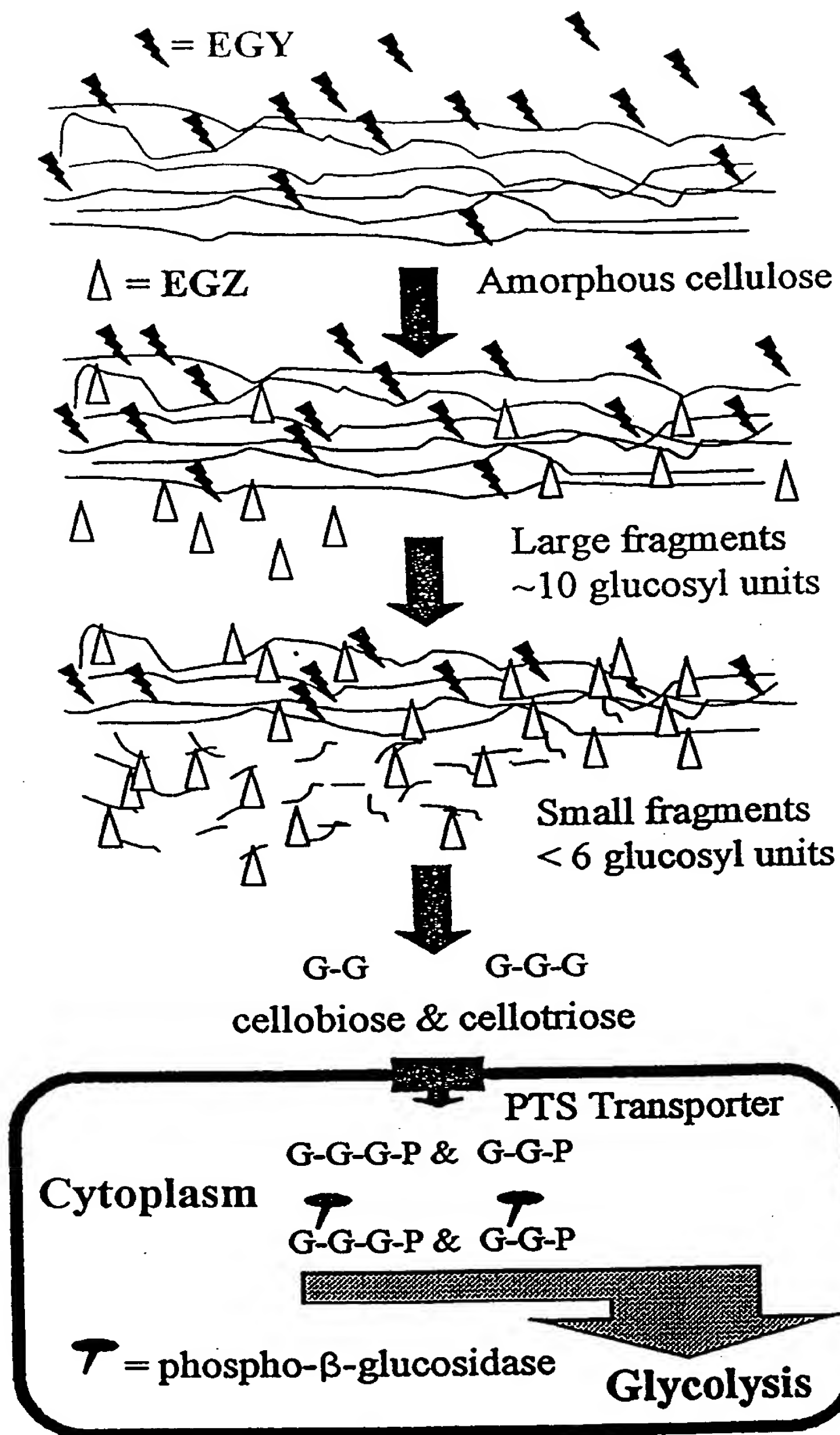
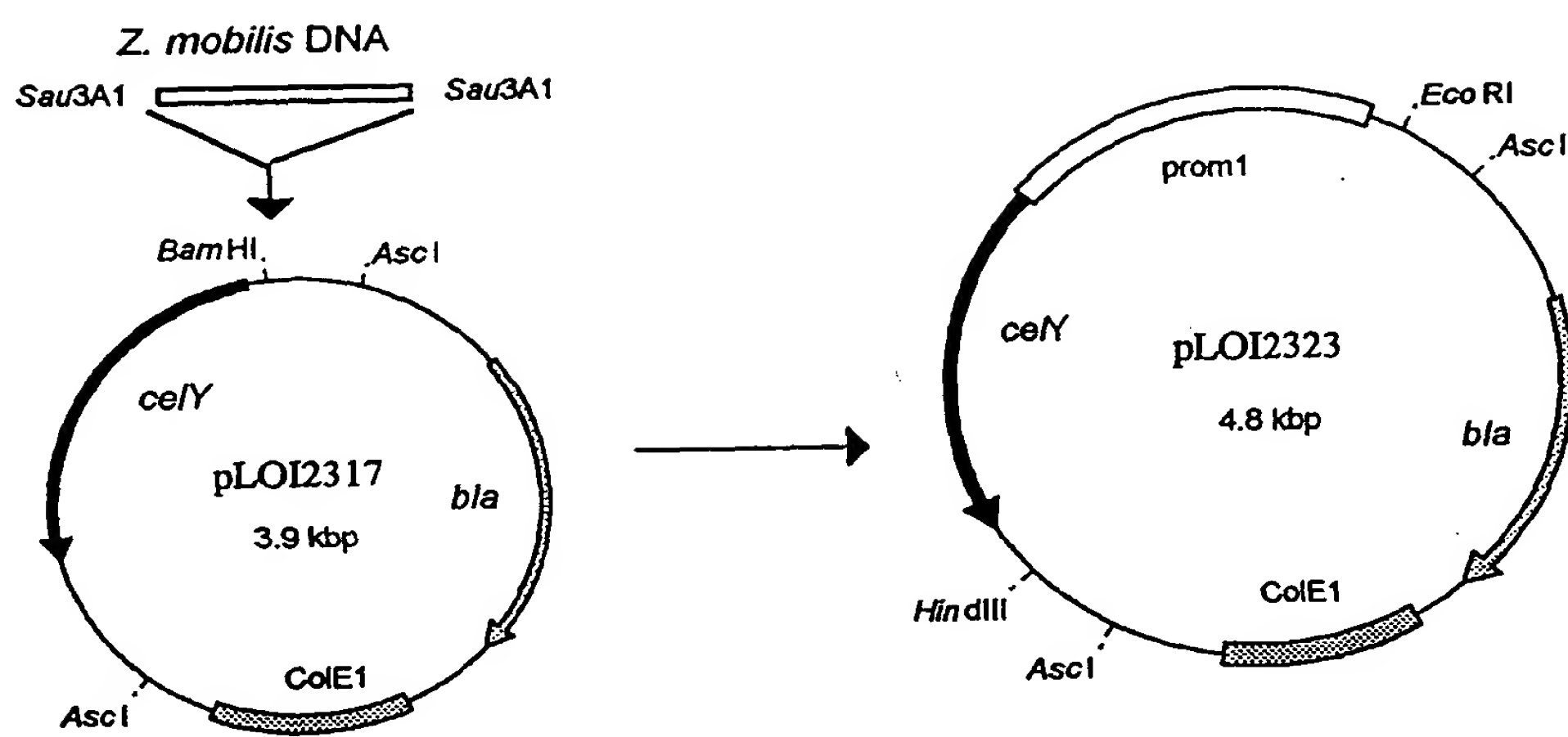


Fig. 13



Position (bp)	-35	-10	RNA Start	Proposed $\delta$ factors	$\delta$ factor consensus sequence	
					-35	-10
	ATATTTTGATTTTCAAGAAAGCCTGATATCTTCCAACATCTT		T (2)	$\delta^{70}$	TTGACA	TATAAT
	GATTGATCCTCTAGAGTCAACCTGCTTGTTACTCGTGATCCCAT		A (4)	$\delta^{70}$	TTGACA	TATAAT
	GAGTCAACCTGCTTGTTACTCGTGATCCCATTCACAAGGGCGAA		C (1)	$\delta^{32}$	CTTGAAA	CCCCAT
	TTACTCGTGATCCCATTCACAAGGGCGAATTAAATTCGCCCTT		C (3)	$\delta^{38}$	CCGCCT	TATACT

Fig. 14

• Transcriptional starts for *celY* were identified by primer extension analysis. Four promoters were identified. Upstream sequence of these promoters with similarity to *E. coli* -35 and -10 regions are marked with underlines. RNA start sites are bolded. Putative promoters are numbered in parenthesis adjacent to the start site in descending order from the strongest. Differences in intensities were small, within 2-fold.

Fig. 15

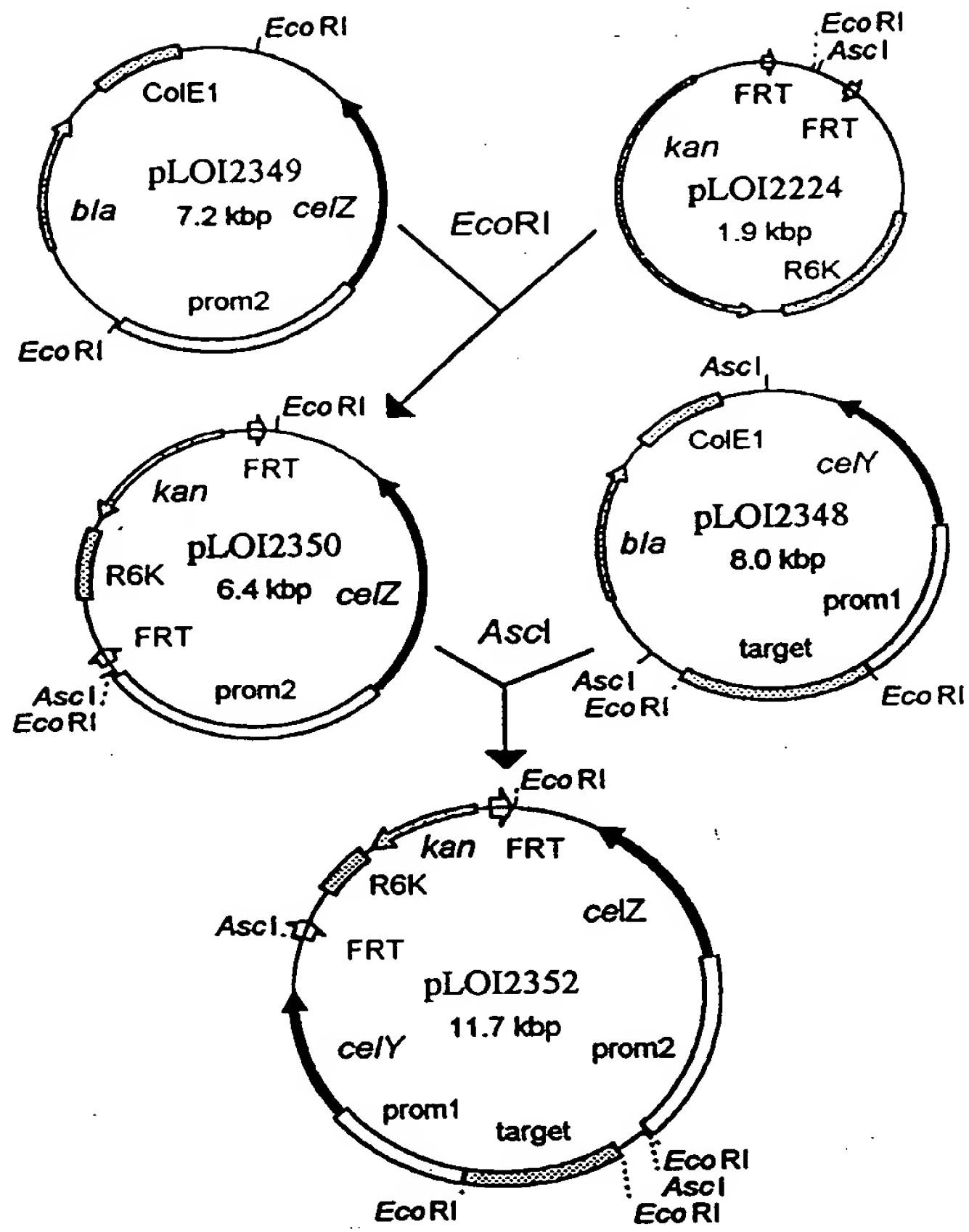
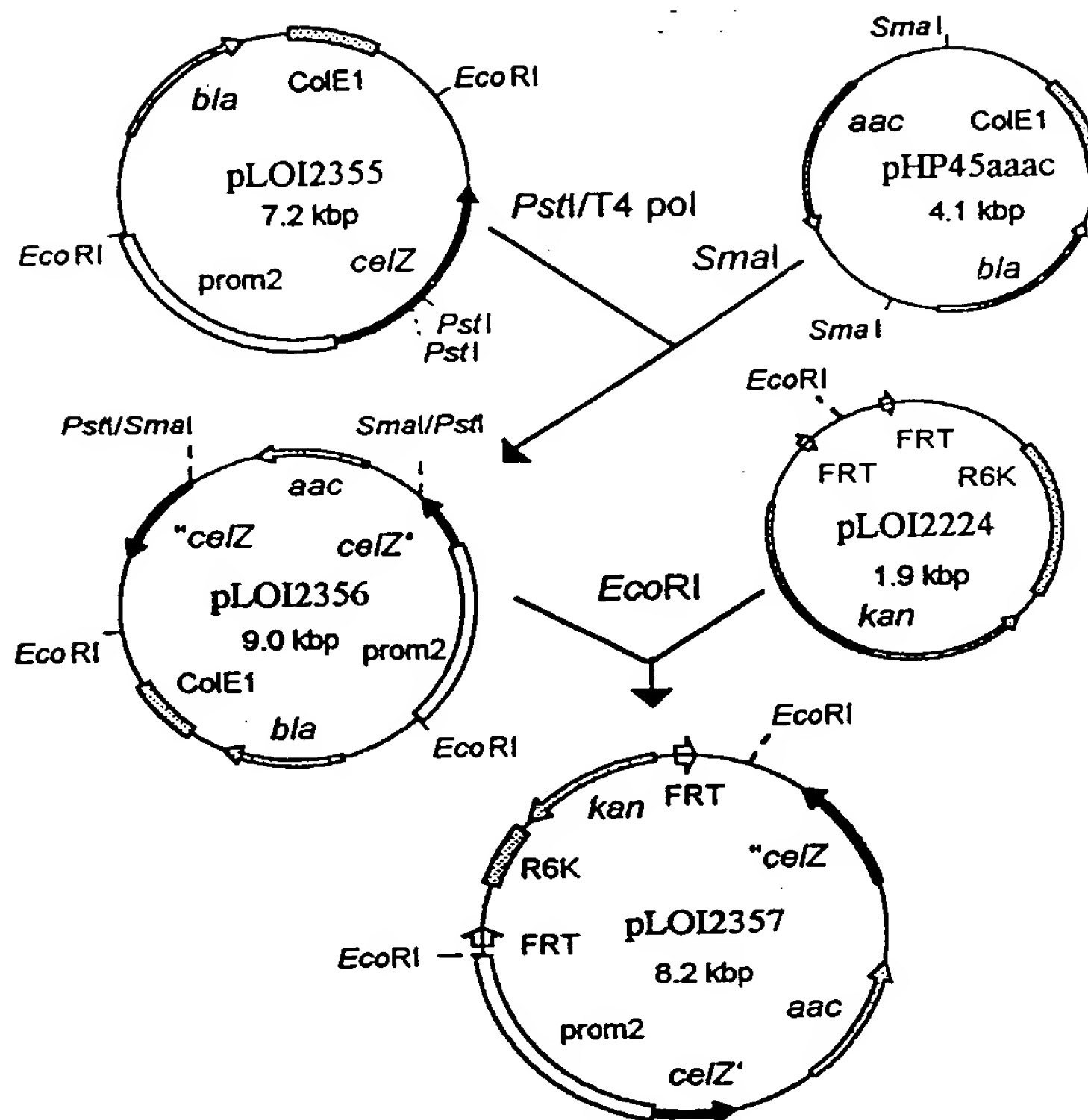


Fig. 16





[illegible]

*K. oxytoca* P2  
(pCPP2006)  
No endoglucanase

*K. oxytoca* SZ21  
(pCPP2006)  
CelY and CelZ

**G2**

**G3.**

**G4**

# G5

**G6**

**G7+**

**0 h      10 h      36 h**

**0 h    10 h    36 h**

Fig. 18

